**Appendix Table 1. Radiocarbon ages and calibrated date ranges for determinations available from Xaltocan**

1σ 2σ

Sample Laboratory Radiocarbon 13C/ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Context Type Number Age (B.P) 12C Cal AD Range P Cal AD Range P

**Op D Lv. 25** CarbonBeta-41910 820 ± 70 -11.2 **1160-1280** .68 **1040-1290** .95

**Op G Lv. 16** Carbon Beta-41911 1070 ± 80 -25.0 **870-1040** .68 **780-1200** .95

**Op H Lv. 10** CarbonBeta-41912 600 ± 70 -25.0 **1300-1370** .50 **1280-1430** .95

1380-1410 .18

**Op I Lv. 15** Carbon Beta-41913 1110 ± 60 -25.0 **880-1010** .68 **780-1020** .95

**Op J Lv. 13** Carbon Beta-41914 670 ± 60 -25.0 **1280-1320** .37 **1250-1410** .95

1350-1390 .32

**Op I Lv. 32** Carbon Beta-50313 1120 ± 90 -21.4 780-790 .02 **680-1050** .94

810-850 .11 1100-1120 .01

**860-1010** .56

**Op I Lv. 46** CarbonBeta-50314 1380 ± 80 -25.0 **580-710** .62 440-480 .02

750-770 .06 **530-830** .92

840-870 .01

**\*\*Op P Lv. 10** Carbon Beta-50315 510 ± 60 -18.2 1320-1340 .13 **1300-1480** .95

**1390-1450** .55

**Op R Lv. 3** CarbonBeta-50316540± 70 -16.6 1320-1360 .29 **1290-1460** .95

**1390-1440** .39

**Op T Lv. 15** Carbon Beta-50317 1180 ± 60 -15.9 **770-900** .58 690-750 .12

920-950 .10 **760-980** .83

**Op G2 Lv. 9 Ft. 2** Carbon Beta-110217 660 ± 110 -10.7 **1260-1400** .68 1050-1080 .01

**1150-1450** .94

**\*\*Op G5 Lv.16A Ft. 5** CarbonBeta-110218 590 ± 100 -10.5 **1300-1420** .68 **1220-1490** .95

**Op G4 29L** Carbon Beta-110219 1150 ± 70 -10.6 780-790 .04 690-750 .07

**810-970** .65 **770-1020** .88

\*\***Op G2 9W Ft. 3** CarbonBeta 110220 400 ± 80 -14.5 **1440-1520** .43 **1400-1660** .95

1570-1630 .25

**Op Y5 Lv. 17 Ft. 13** CarbonBeta-210271 800 ± 60 -25.4 **1180-1280** .68 1050-1090 .07

1120-1140 .02

**1150-1290** .86

**Op Z2 27Y** Carbon Beta-210272 910 ± 80 -19.5 **1040-1190** .68 **990-1260** .95

**Op Z2 25X** Carbon Beta-210273 950 ± 40 -24.5 1030-1050 .18 **1020-1180** .95

**1080-1150** .50

**Op Z1 Lv. 16 Loc. 1** Carbon Beta-210274 870 ± 40 -19.0 1050-1080 .14 1040-1110 .24

1130-1130 .01 **1120-1260** .72

**1150-1220** .52

**Op Z1 Lv. 13 Loc. 2** Carbon Beta-210275 970 ± 40 -24.0 1020-1050 .26 **990-1160** .95

**1080-1130** .32

1140-1150 .11

**Zoc A Lv. 6 Area L** CarbonBeta-243611 700 ± 40 -10.7 **1270-1300** .54 1240-1250 .01

1370-1370 .15 **1250-1320** .69

1350-1390 .26

**Zoc A Lv. 7 Ft. 3** Carbon Beta-243612 790 ± 40 -10.3 **1220-1270** .68 **1170-1280** .95

**Zoc A Lv. 9 Ft. 11** CarbonBeta-243613 770 ± 40 -22.3 **1230-1270** .68 **1190-1290** .95

**Zoc A 13BB** Carbon Beta-243614 950 ± 40 -24.6 1030-1050 .18 **1020-1180** .95

**1080-1150** .50

**Zoc A 15JJ** Carbon Beta-243615 900 ± 40 -22.0 **1050-1090** .31 **1030-1210** .95

1120-1140 .12

1150-1190 .23

1200-1210 .02

**Zoc A 17NN** Carbon Beta-243616 1020 ± 40 -23.9 **970-1040** .68 900-920 .05

**940-1050** .76

1080-1130 .11

1140-1150 .04

**Zoc B Lv. 6 Ft. 2** CarbonBeta-243617 860 ± 40 -24.5 1050-1080 .10 1040-1100 .17

**1150-1220** .58 **1120-1260** .78

**Zoc B 7B** Carbon Beta-243618 590 ± 40 -11.1 **1310-1360** .50 **1300-1420** .95

1390-1410 .18

**Zoc B Lv. 10 Ft. 10** CarbonBeta-243619 900 ± 40 -23.1 **1050-1090** .31 **1030-1210** .95

1120-1140 .12

1150-1190 .23

1200-1210 .02

**Zoc B Lv. 13 Ft. 17** CarbonBeta-243620 770 ± 40 -25.1 **1230-1270** .68 **1190-1290** .95

**Zoc B Lv. 17 Ft. 26** CarbonBeta-243621 860 ± 40 -23.3 1050-1080 .10 1040-1100 .17

**1150-1220** .58 **1120-1260** .78

**Zoc B Lv. 18 Ft. 31** CarbonBeta-243622 850 ± 40 -9.6 **1160-1250** .68 1050-1090 .12

1120-1140 .04

**1150-1270** .79

**Zoc C 7I** Carbon Beta-243623 910 ± 40 -20.9 **1040-1110** .39 **1030-1210** .95

1120-1170 .28

**Zoc C 8K** Carbon Beta-243624 820 ± 40 -10.1 **1190-1260** .681060-1070 .02

**1150-1280** .94

**Zoc C 13S** Carbon Beta-243625 800 ± 40 -23.2 **1210-1270** .68 **1170-1280** .95

**Zoc C Lv. 15 piso** Carbon Beta-243626 930 ± 40 -25.1 **1040-1110** .44 **1020-1190** .95

1120-1150 .25 1200-1206 .01

**Zoc C 18V** Carbon Beta-243627 850 ± 40 -11.0 **1160-1250** .68 1050-1090 .12

1120-1140 .04

**1150-1270** .79

**Zoc A 18NN** Carbon Beta-243628 950 ± 40 -22.9 1030-1050 .18 **1020-1180** .95

**1080-1150** .50

**Z3 14Q** Carbon AA84393 700 ± 30 **1270-1300** .63 **1260-1310** .74

1370-1380 .05 1360-1390 .21

**Este 14 Burial 2** Bone AA91366 410 ± 40 -7.5 **1440-1500** .57 **1420-1520** .72

1500-1510 .02 1560-1630 .24

1600-1620 .09

**Este 14 Burial 3** Bone AA91367 570 ± 40 -6.9 **1320-1360** .39 **1300-1370** .55

1390-1420 .29 1380-1430 .40

**Este 25 Burial 2** Bone AA91368 570 ± 40 -7.1 **1320-1360** .39 **1300-1370** .55

1390-1420 .29 1380-1430 .40

**Este 8 Burial 4** Bone AA91369 550 ± 30 -9.2 1320-1340 .24 1310-1360 .40

**1390-1420** .44 **1390-1440** .55

**Este 14 Burial 7** Bone AA91370 620 ± 40 -5.9 **1300-1320** .28 **1290-1400** .95

1340-1370 .27

1380-1390 .14

**Este 14 Burial 6** Bone AA91371 420 ± 30 -8.9 **1440-1490** .68 **1420-1520** .85

1580-1580 .01

1590-1620 .10

**Este 6 Burial 1** Bone AA91372 480 ± 30 -8.0 **1420-1440** .68 **1400-1470** .95

**Este 7 Burial 1** Bone AA91373 510 ± 30 -8.2 **1410-1440** .68 1330-1340 .07

**1390-1450** .89

**Este 8 Burial 5** Bone AA91374 540 ± 30 -9.1 1330-1340 .16 1310-1360 .33

**1390-1430** .52 **1390-1440** .62

**Este 34 Burial 1** Bone AA91375 570 ± 40 -8.4 **1320-1360** .42 **1300-1370** .58

1390-1410 .26 1380-1430 .38

**Este 10 Burial 2** Bone AA91376 510 ± 30 -9.0 **1410-1440** .68 1330-1340 .07

**1390-1450** .89

**Este 6 Area S** Carbon AA91377 840 ± 40 -24.1 **1160-1230** .62 1050-1080 .06

1230-1240 .04 1120-1140 .02

1250-1250 .02 **1150-1270** .87

**Este 6 Area V** Carbon AA91378 790 ± 40 -23.7 **1220-1270** .68 **1170-1280** .95

**Este 5 Area G1** Carbon AA91379 650 ± 40 -9.4 1290-1310 .32 1280-1330 .45

**1360-1390** .37 **1340-1400** .51

**Este 3 Area D** Carbon AA91380 290 ± 30 -9.9 **1520-1570** .41 **1490-1600** .61

1580-1590 .03 1610-1670 .33

1630-1650 .24 1790-1790 .01

**Este 2 Feat. 1** Carbon AA91381 850 ± 40 -25.0 **1160-1230** .64 1050-1090 .12

1230-1240 .02 1120-1140 .04

1250-1250 .01 **1150-1260** .80

\*\***Este 10 Feat. 3** CarbonAA91382 450 ± 40 -9.9 **1420-1470** .68 **1410-1520** .91

1600-1620 .05

**Este 9 Area H** Carbon AA91383 690 ± 40 -10.2 **1270-1300** .50 **1260-1320** .65

1370-1380 .18 1350-1390 .30

\*\***Este 12 Area E** CarbonAA91384 360 ± 30 -9.4 **1460-1520** .40 1450-1530 .47

1470-1580 .05 **1540-1630** .48

1590-1630 .24

**Este 12 Feat. 2** CarbonAA91385 600 ± 40 -24.5 **1310-1360** .54 **1300-1410** .95

1390-1400 .14

\***Este 21H Area B** CarbonAA91386 140 ± 40 -24.4 1680-1710 .11 **1670-1780** .42

1720-1760 .18 1800-1890 .38

**1830-1880** .21 1900-1960 .16

1910-1940 .11

**Este 20H Feat. 1** CarbonAA91387 260 ± 30 -23.6 1530-1550 .14 1510-1600 .33

**1630-1670** .56 **1620-1680** .48

1780-1800 .10 1780-1800 .12

1940-1950 .03

\***Este 21D Area B1** CarbonAA91388 760 ± 40 -24.0 **1230-1280** .68 **1210-1290** .95

***Note.*** The date ranges and probabilities were calculated by the OxCal 4.1 calibration software. For each sample, the calibrated date range with the highest probability is indicated in boldface type.

\*Samples that were excluded from Bayesian modeling because they could not be associated with a single phase.

Outlier dates from Brumfiel’s test pit excavations that likely resulted from poor understanding of the stratigraphic context of the samples. These samples were removed from the model.

\*\*Dates with poor agreement (with an agreement index of less than 60%) with the Bayesian model that were determined to be outliers and were excluded (see Bronk Ramsey 2009b). These dates, which are inconsistent with stratigraphic and ceramic data for the deposits, likely reflect bioturbation.